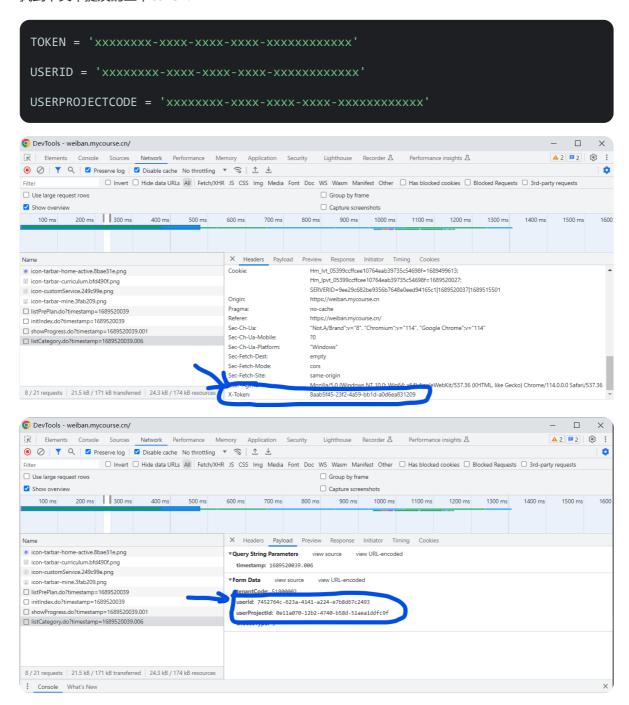
WEIBAN Course Master

使用

在脚本相同目录下创建一个名为 config.py 的文件, 登录安全教育学习页面, 并在浏览器开发工具中找到下文中提及的三个token:



运行 main.py 即可开始学习课程。

Appendix

```
https://weiban.mycourse.cn/pharos/project/showProgress.do 获取学习课程的进展https://weiban.mycourse.cn/pharos/usercourse/listCategory.do 获取所有的类别https://weiban.mycourse.cn/pharos/usercourse/listCourse.do 根据给出的类别获取所有的课程https://weiban.mycourse.cn/pharos/usercourse/study.do 向这个网址发送一个post请求,表示学习的开始https://weiban.mycourse.cn/pharos/usercourse/getCourseUrl.do 通过这个url可以获取 methodToken https://weiban.mycourse.cn/pharos/usercourse/v1/methodToken.do 完成学习,关键参数: callback 和 _
```

```
# 完整代码
import time
from urllib import request, parse
import http
import json
import random
import datetime
import os
import config
__X_token = config.TOKEN
__ua_headers = {'User-Agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko) '
                             'Chrome/92.0.4515.107 Safari/537.36', 'X-Token':
__X_token}
__debug = False
__disconnect_count = 0
# js里的时间戳似乎都是保留了三位小数的.
def __get_timestamp():
   return str(round(datetime.datetime.now().timestamp(), 3))
```

```
def __gen_url(raw_url):
   return raw_url + '?timestamp=' + __get_timestamp()
# Magic: 用于构造、拼接"完成学习任务"的url
# expando = 'jQuery' + (f + Math.random()).replace(/\D/g, "")
def __gen_rand():
   return ('3.4.1' + str(random.random())).replace('.', '')
def __waiting(k=0):
   t = 100 * k + random.randint(0, 100)
   time.sleep(t / 100)
def process_url(URL, PARAM, METHOD='POST'):
   temp = None
   while not temp:
       temp = __process_url(URL, PARAM, METHOD)
   return temp
def __process_url(URL, PARAM, METHOD):
   if METHOD == 'POST':
       data = bytes(parse.urlencode(PARAM), encoding='utf-8')
       req = request.Request(url=__gen_url(URL), data=data, method=METHOD,
headers=__ua_headers)
   elif METHOD == 'GET':
       URL += '?'
       # 拼接地址
       for key, item in PARAM.items():
           URL = URL + ('' if URL.endswith('?') else '&') + key + '=' + item
```

```
# 学得太快有可能学不上,需要等待一会.
       __waiting(15)
       req = request.Request(url=URL, method=METHOD, headers=__ua_headers)
       if __debug:
           print(URL)
   else:
       raise ValueError('Wrong Method!')
   try:
       responseStream = request.urlopen(req)
   except http.client.RemoteDisconnected:
       return None
   responseText = responseStream.read().decode('utf-8')
   try:
       # finish学习返回的东西解不了码,但是里面的内容不重要.
       responseJSON = json.loads(responseText)
   except json.decoder.JSONDecodeError:
       if __debug:
           print(responseText)
       return 1
   if __debug:
       print(responseJSON)
   __waiting()
   return responseJSON
def main():
   tenantCode = '51800002'
   userId = config.USERID
   userProjectId = config.USERPROJECTCODE
   if debug:
       # step1: show progress
```

```
url = 'https://weiban.mycourse.cn/pharos/project/showProgress.do'
       param = {
           'userProjectId': userProjectId,
            'userId': userId,
            'tenantCode': tenantCode,
       progressInfo = process_url(url, param)
       print('总课程数: {},已完成课程数: {}.'
              .format(progressInfo['data']['requiredNum'], progressInfo['data']
['requiredFinishedNum']))
   if os.path.exists('./course.json') and False:
       print('从本地获取课程信息.....')
       with open('./course.json', 'r') as f:
           courseInfo = json.load(f)['data']
       url = 'https://weiban.mycourse.cn/pharos/usercourse/listCategory.do'
       param = {
           'userProjectId': userProjectId,
            'userId': userId,
            'tenantCode': tenantCode,
           'chooseType': 3,
       categoryInfoRaw = process_url(url, param)
       categoryInfo = []
       for category in categoryInfoRaw['data']:
           categoryInfo.append(
               (category['categoryCode'], category['categoryName'],
category['totalNum'], category['finishedNum']))
           if __debug:
               print('类别: {}, 总数: {}, 已完成 {}.'
                     .format(category['categoryName'], category['totalNum'],
category['finishedNum']))
```

```
url = 'https://weiban.mycourse.cn/pharos/usercourse/listCourse.do'
       courseInfo = []
       for category in categoryInfo:
           param = {
               'userProjectId': userProjectId,
               'userId': userId,
               'tenantCode': tenantCode,
               'chooseType': 3,
               'categoryCode': category[0]
           courseInfoRaw = process_url(url, param)
           for course in courseInfoRaw['data']:
               courseInfo.append(
                   (course['userCourseId'], course['resourceId'],
course['resourceName'], course['finished']))
       with open('./course.json', 'w') as f:
           json.dump({'data': courseInfo}, f)
   # 找到所有的课程.
   print('课程总数:', len(courseInfo))
   study_url = 'https://weiban.mycourse.cn/pharos/usercourse/study.do'
   get_url_url = 'https://weiban.mycourse.cn/pharos/usercourse/getCourseUrl.do'
   finish_url = 'https://weiban.mycourse.cn/pharos/usercourse/v1/{}.do'
   for course in courseInfo:
       print('课程名: {},完成情况: {}'.format(course[2], '已完成' if course[3]
== 1 else '未完成'))
       if course[3] == 1:
           # 跳过已完成的课程.
           continue
           # step4: do study
```

del categoryInfoRaw

```
param = {
               'userProjectId': userProjectId,
               'userId': userId,
               'tenantCode': tenantCode,
               'courseId': course[1]
           process_url(study_url, param)
           urlInfoRaw = process_url(get_url_url, param)
           # getCourseUrl.do 的请求将会返回一个url,这个url中包含有一个参数
methodToken, token将会是finishCourse请求的一部分.
           index_s = urlInfoRaw['data'].find('methodToken') + 12
           index_e = urlInfoRaw['data'].find('&', index_s)
           methodToken = urlInfoRaw['data'][index_s: index_e]
           if __debug:
               print(methodToken)
           temp_url = finish_url.format(methodToken)
           ts = __get_timestamp().replace('.', '')
           # 请求包含一个时间戳,这个时间戳分别被用在callback参数和_参数上,后者需要
自增1.
           param = {
               'callback': 'jQuery{}_{}'.format(__gen_rand(), ts),
               'userCourseId': course[0],
               'tenantCode': tenantCode,
               '_': str(int(ts) + 1),
           process_url(temp_url, param, 'GET')
if __name__ == '__main__':
   main()
```